**Pulipati**

**Id: pulipati1218@gmail.com**

**Ph: +1 5512295663**

**Professional Summary:**

* A highly competent professional having overall 11+ years in IT Industry as **DevOps, Cloud Engineer, Build and Release Engineer, JIRA Administrator and** **Lead Quality Analyst on Banking, Insurance and e-Commerce domains.**
* Expertise in AWS platform and its dimensions of scalability including **IAM, VPC, Route 53, Security Groups, Cloud Front, Cloud Formation, Kinesis, AMI, EC2, Elastic Beanstalk, EBS, ELB, S3, Elastic Container Service (Docker Containers), Auto scaling, RDS, SES, SQS, SNS, Cloud Watch, Lambda, Redshift, Direct Connect** and other services of the **AWS**.
* Possess good knowledge on utilizing different databases like **NoSQL, MongoDB, Cloud Base, DynamoDB.’**
* Templated **AWS** infrastructure as a code using **Terraform** to build staging and production environments.
* Expert in designing and distribution of Data across all the nodes and Clusters on different **availability zones** in **AWS Redshift** and experience in **automating** the infrastructure using **Terraform** in **AWS console**.
* Experience with working on rolling updates using the deployments feature in **Kubernetes** and implemented **BLUE GREEN** deployment to maintain zero downtime to deploy process in **Tomcat**, **Nginx** using **Python** and **Shell Scripts** to automate log rotation of multiple logs from **web servers** and automating administration tasks.
* Experience in creating pods and clusters in **Kubernetes** and deploy them using **OpenShift**.
* Good understanding in managing **Docker** containers and **Kubernetes** clusters.
* Extensively used **Kubernetes** charts using Helm and created reproducible builds of **Kubernetes** applications,

managed Kubernetes manifest files and releases of helm packages

* Experienced in working with **Terraform** key features such as **Infrastructure as a code (IAAC).**
* Familiarity working with **Kubernetes** to automate deployment, scaling and management of web Containerized applications on **AKS.S**
* Used Deployment manager of **GCP** to launch instances and copy configurations into additional regions to tackle issues related to region outage, using different services like **Compute Engine, Compute Functions, CloudDNS, Cloud Storage and Cloud Deployment** Manager and **SaaS, PaaS and IaaS.**
* Configured the Kubernetes cluster on **GCP** to establish communication between **pods** and **MySQL** instance on **RDS** of **AWS** using **Cloud** **Data source.**
* Excellent knowledge in **Azure compute services, Azure Web apps, Azure Data Factory & Storage, Azure Media & Content delivery, Azure Networking, Azure Hybrid Integration,** and **Azure Identity & Azure infrastructure management** (Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses, Office365).
* Implemented a **'server less'** architecture using **API Gateway, Lambda, and Dynamo DB** and deployed **AWS** **Lambda** code from **Amazon S3 buckets**.
* Designed the data models to be used in data intensive **AWS Lambda** applications which are aimed to do complex analysis creating analytical reports for end-to-end **traceability**, lineage, definition of Key Business elements from **Aurora.**
* Experienced in using the **Docker** for **virtualization, Ship, Run and Deploy** the application securely to fasten the **Build/Release Engineering**. Virtualized the servers using the **Docker** for the test environments and dev-environment needs.
* Manage system routine **backup, scheduling jobs, enabling Cron jobs, system logging and network logging** for servers for maintenance.
* Create and maintain users accounts profiles, security, rights disk space and process monitoring.
* Worked extensively on **Ansible** that automates **Cloud provisioning, Configuration management, application deployment, Intra-service orchestration, multi-tier deployments and many other IT needs.**
* Expertise in building CI/CD pipeline, upstream or downstream projects, multi-branch pipelines with the help of Jenkins and setting up **Maven/ANT/Gradle** repositories and to automate everyday builds.
* Proficient in writing the Jenkins File using **Groovy Script.**
* Proficient in build deployment, build scripts and automated solutions using **shell, PERL, Groovy, Ruby and Python.**
* Worked on Web servers and Application servers like **Apache, WebLogic, WebSphere, JBOSS** to deploy code.
* Good knowledge and experience in using **Elasticsearch, log stash, Kibana and fluent dB, Cloud Watch, Nagios** for logging and monitoring.
* Expertise in working with different Bug Tracking Tools like **JIRA, ServiceNow, Rally, Clear Quest, ALM/Quality center (QC).**

**Education Details:**

**B.Tech (CSE), JNTU, 2006**

**Master (CSE), Sacredheart University, 2017**

**Technical Skills**

**CI & CD Tools:** Jenkins, Bamboo, Ansible, Chef, Vagrant/GoCD, Terraform, Kubernetes.

**DBMS:** Oracle, MySql, DB2, SQL Server, NoSQL, Postgres, DynamoDB, MongoDB, Hive, Hbase

**Build Tools:** Ant, Maven, Gradle

**Source Code Tools:** SVN, Git, ClearCase

**Cloud Technologies:** AWS, Azure, GCP

**Life Cycle Model:** Agile-Scrum, Waterfall

**Management Tools:** HP-QC, HP-ALM, JIRA, ServiceNow, IBM Clear Quest, Rally

**Monitoring Tools:** Nagios, New Relic, Graphite, Splunk

**Cloud Tools:** EC2, Elastic BeanStalk, Elastic Load Balancer, RDS, S3, Glacier, SQS, SNS, Cloud Formation, Route53, VPC, Cloud watch, Lambda

**Testing Tools:** Selenium WebDriver/RC/IDE/GRID, Mercury QTP, HP Quality Center, Cucumber, Eclipse, Test Plan Manager, ALM

**Frameworks:** Junit, TestNG, TDD

**ETL Tools:** Informatica, MSBI (SSAS,SSIS, SSRS)

**Reporting Tools**: SSRS, Tableau 9, 10.x, Microsoft Power BI

**Web/Application Servers:** Apache, WebLogic, WebSphere.

**O/S:** Windows, UNIX, Linux, iOS, RedHat Linux, Ubuntu, Sun Solaris, VMware.

**Languages:** Java, JavaScript, Asp.Net, C#, Groovy Script, PowerShell, Python.

**Professional Experience**

**Bank of New York Mellon Aug2018 – Till Date**

**Lead DevOps Engineer/SRE**

**Responsibilities:**

* Promoted to Team lead within span of 3months of joining and Managing team of **6 Ansible Developer**.
* Make wrapper around the application making them artifacts to be delivered using Chocolatey for different **msi, exe**, and Built tools for Linux creating **rpms, and tarz.**
* Display proficiency with the tools used for Project such as **Git, AWS, PowerShell, Ansible, App Engine, Docker, Citrix servers, DNS set up, Chocolatey, Antifactory, AWX.**
* Setup **AKS** environment for the **Kubernetes** **deployments** and **migrate** all applications from legacy Kubernetes to **AKS** **clusters**.
* Proficient in Groovy Scripting for writing all the desired pipeline steps in Jenkins and scheduling the Jobs.
* Scripted **Helm** templates from scratch for packaging the **Kubernetes** objects and inject the values through.
* values.yaml file and maintain versioning with Chart.yaml file.
* **Fluent** in Setting up **Liveness** and **Readiness** Probes for **Kubernetes** pods to track the status and the pod readiness.
* to accept traffic
* Was responsible for maintaining versioning (revision) of the **Kubernetes** deployments performed with helm and

rollback in case of any errors.

* Promoted to Team lead within span of 3months of joining and Managing team of 6 **Ansible** **Developer**.
* Used **Bash** and **Python**, to supplement automation provided by **Ansible** and **Terraform** for tasks such as encrypting **EBS** volumes backing AMIs and scheduling **Lambda** functions for routine AWS tasks.
* Used **Terraform** to map more complex dependencies and identify network issue and implement **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Created a **Lambda Deployment function** and configured it to receive events from your **S3 bucket.**
* Automated EC2 snapshot creation using **step functions in AWS Lambda**.
* Daily automated reporting of list of **EC2 instance by creating step functions which trigger and SNS** to the developers.
* Action based on OS logs digested in **CloudWatch** logs like automatically creating deny for **EC2** if some is trying to do unauthenticated login Integration of Lambda with **JIRA** ticketing tools to take automated actions, which captures the tickets in various states like **Open, In progress, Closed etc.**
* Deployed Dotnet application using **Azure Devops** and provided coaching on how to implement **Azure DevOps.**

application on VMS which increased production by 60%.

* Working with **RestAPI, GIT API, JIRA API,** automating using **Python and Java** Scripting.
* Deployed **Java** based Spring boot, Node JS applications on to **App Engine.**
* Focus on **Compute Engine**, **App Engine, Kubernetes Engine, Cloud IAM, Cloud VPN, Deployment Manager**,
* **Stack driver** Logging & Monitoring, Storage & Processing Options **(Cloud Datastore)**
* Have written the **Ansible playbooks** which are the entry point for **Ansible** provisioning, where the automation is defined through tasks using **YAML** format to setup **Continuous Delivery pipeline** and ran **Ansible** Scripts to provision servers.
* Used **Ansible** and **Ansible tower (AWX)** as configuration management tool to deploy the application to multiple servers at once.
* processes using **Jenkins** to move from one environment to other environments.
* Tracked backlogs using **JIRA**

**Santander Bank- Boston, MA Aug 2016 – May2018**

**Lead DevOps Engineer**

**Responsibilities:**

* Managing team of 6 Devops Engineer and give them solutions with Cost Optimization.
* Capacity Planning for the IaaS, Pass, SaaS
* Building automation and process that reduce the impact of mistakes.
* Monitoring to improve **MTTD/MTTR (Mean time to Detection/recovery)**
* Wrote **Puppet manifests** and **modules** to **deploy**, **configure**, and **manage servers**
* Built servers using AWS: Importing volumes, launching **EC2, creating security groups, auto-scaling, load balancers, Route 53, SES and SNS** in the defined virtual private connection.
* Designed **AWS Cloud Formation** templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Provide architectural and practical guidance to software development to **improve resiliency, efficiency, performance, and costs**
* **Monitor and report** on service level objectives for a given applications services.
* Work with business and product owners to establish **key performance indicators**
* **Capacity planning and management** – create, use, maintain a capacity model for on-prem and AWS hosting, based on E2E user flow profiles
* Create the Virtual Machine cluster and load balance using **Kubernetes** to automate deployment, scaling and management of web Containerized applications and providing high availability and fault tolerant applications Utilizing Orchestration using **Kubernetes and Apache Mesos** on **Google Cloud Platform (GCP)**.
* Deployed Zookeeper pods alongside flink pods in the same **Kubernetes** **namespace** to perform the leader election

in cases of multiple jobmanagers.

* Setup Redis Database with the master and slave pods attaching required Persistent Volume Claims on

**Kubernetes** for storing the Cache of our microservices into the database.

* Used **GCP** for setting the infrastructure using **NoSQL** to scale high volumes of customers, reproduce customer's **GCP** infrastructure for troubleshooting.
* Set up a **GCP** Firewall rules in order to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP** **cloud** **CDN** (content delivery network) to deliver content from **GCP cache** locations drastically improving user experience and latency.
* Secured almost the 180 on-prem servers by fixing the numerous **vulnerabilities** and **troubleshooted** windows AD level activities etc.
* Good working experience of **SSL/TLS**, web and database servers. Assisted, **DevSecOps** the sec team with **Penetration** testing.
* Worked on google cloud platform (GCP) services like **compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring** and **cloud deployment manager.**
* Setup **GCP Firewall rules** to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP cloud CDN** to deliver content from GCP cache locations drastically improving user experience and latency.
* Worked on Deployment Automation of all **microservices** to pull image from private **Docker registry** and deploy to **Kubernetes Cluster using Ansible.**
* **Kubernetes** is being used to orchestrate the deployment, scaling and management of **Docker Containers**
* Worked with development team to migrate **Ant scripts to Maven**.
* Used **Maven** dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across projects and environments.
* Experience in working with **GIT** to store the code and integrated it to **Ansible Tower** to deploy the **playbooks**.
* Experience in using **GIT webhooks** in Jenkins to trigger the code and automate the build process for CI/CD
* Experience in building and deployment scripts using **MAVEN** as build tool and automated the build and deploy processes using **Jenkins** to move from one environment to other environments.
* Configured and maintained **Jenkins** to implement the CI process and integrated the tool with Ant and Maven to schedule the builds. Took the sole responsibility to maintain the **CI Jenkins server**
* Tracked backlogs using **JIRA**
* Installed, Managed and Configured monitoring tools such **as Splunk, Nagios and Cloud Watch** for monitoring the log files, Network Monitoring, log trace monitoring and the hard drives status.

**Kohl’s – Menomonee, WI Aug 2013 - July 2016**

**DevOps Engineer**

**Responsibilities:**

* Responsible for nightly and weekly builds for different projects.
* Experience with setting up **Chef Infra, bootstrapping nodes, creating, and uploading recipes, node convergence in Chef SCM**
* Experience in setting up the **chef repo, chef workstations and chef nodes**
* Experience in working **with data bags, attributes, cookbooks, recipes, and templates in Chef**
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions analyze and resolve conflicts using **Tortoise SVN source control.**
* Designed and implemented **Tortoise SVN** metadata including elements, labels, attributes, triggers, and hyperlinks.
* Performed daily **Night Build & Weekly Build & Release** for the product using **Ant, Maven build scripts**
* Creation of **RPM** packages required for deployment into DIT, SIT, Pre-Production and Production environments.
* Deployed and Starting the servers for running the web applications, Setting up the build environments.
* Created **Hudson/Jenkins** **jobs** for continuously building Apache the projects.
* Managed builds and wrote **Build** **scripts** for different technology-based applications
* Writing **Maven and Ant** scripts for application layer modules.
* Implementing new projects builds **framework** using **Hudson/Jenkins** & maven as build framework tools
* Done patching to **SIT, pre-production, production** environments by doing delta (patch) updated builds and patching the package and re-starting the servers.
* Resolved update, merge, and password authentication issues in JIRA.
* System monitoring using **Nagios.**
* Using WSUS to manage and distribute updates through a management console. As an administrator and determined the bases on network security and configuration to connect directly to Microsoft Update.
* Prepare the build instructions document and build notes for deployment to Production.
* Handled Releases and came up with release game plan for the application. Managed the entire release communication and Release co-ordination during the Project roll-out.

**Cigna Pharma- Hyderabad, Telangana Jan 2011 - Jul 2013**

**JIRA Admin/ UAT Tester**

**Responsibilities:**

* Setup the **Hudson jobs** for Continuous integration process and to execute test cases
* Worked with **Tortoise SVN** version controls.
* Create complex **JIRA** workflows including project workflows, field configurations, screen schemes, permission schemes and notification schemes in JIRA.
* Manage **user permissions** to tools according to the needs of projects and teams.
* Lead and provide technical assistance and/or training in using **JIRA and Confluence** and other tools as identified.
* Work closely with other teams to define best practices for using lab tools across the organization and company.
* Test new versions of the tools and plug-ins to ensure compatibility.
* Researches and utilize industry methods and techniques.
* Configuration of **email notifications** on status change.
* Configuration for **automatic issue** creating through mail, customize status etc.
* Completed a project to establish **JIRA** tracking for 8 functional areas and associated sub-projects in accordance with the agreed upon **JIRA** terms and implementation. This included the creation of dashboards for Technical Director, Leadership Team, Project Review Team, and Functional Area Leads.
* Created multiple projects and helped modify other projects already in progress
* **Configuration/Permissions** and Notification schemes for all projects
* Created customized **Versions/ Components** for all projects
* Created **Dashboards** for customer leadership and functional areas​​​ Performed end-to-end testing manually
* **Triaging** the issues found by client or end user
* ​​​Performed end-to-end testing manually
* Concluding if it’s a defect or a change request.
* Handling **defect management & bug for triage** and **defect report.**
* Worked and supported multiple projects for the defect support and coordination.
* ​​Ensured that the severity level for the bugs was assigned properly and the highest severity bugs were resolved immediately so interacted with developers to resolve any defects and issues.
* Worked extensively with bank side **Quality Analyst, Point of Contacts.**
* Acted a Quality Analyst **Point of Contact** of bank Side users.
* Liaised with Business Analyst, Managers, and Quality Analyst.

**Jack Henry Associates Payments-Hyderabad, Telangana Oct 2009- Dec 2011**

**QA- Database Testing, Functional and Regression Testing**

**Responsibilities:**

* Created test cases and test plans for user acceptance testing and system testing based on functional specifications.
* Tested all the **ETL processes** developed for fetching data from OLTP systems to the target Market Data warehouse using **complex SQL queries.**
* Tested the **ETL mappings** and other **ETL Processes** (Data Warehouse Testing)
* Performed monitoring of the ETL jobs (Extraction, Transformation and Loading) by using **SSIS.**
* Tested **T-SQL** procedures that were developed to load the data from temporary tables in staging to target tables in the data warehouse
* Used **SSIS** for extraction, loading and transformation (ETL) of data in the data warehouse.
* Tested several **SSIS Mappings** to validate the business conditions.
* Provided support to offshore QA team by giving them knowledge transfer and helping them with closure of the defects.
* Performed data validation on the flat files that were generated in UNIX environment using UNIX commands as necessary.
* Tested the **XMLs** feeds received from another source which is a third party for data consistency.
* Tested the **ETL** with XML as source and tables in the data warehouse as target.
* Involved in testing the **XML** files and checked whether data is parsed and loaded to staging tables.
* Tracked defects to closure by coordinating with the dev team.
* Defined testing criteria, planned, created and executed test plans in a mainframe environment.
* Tested source data for data completeness, data correctness and data integrity.
* Performed End to end testing starting from the source to the report.
* Conducted and coordinated integration testing and regression testing.
* Participated in business requirements gathering and in modifications of the requirements based on the scope.
* Worked with the **DSO team** to understand the source to target mapping document and accordingly helped them to clean the source data to decrease the defects and to ensure that final data matches with the data warehouse standards.
* Prepared test data to cover all the test scenarios.
* Maintained all the test cases in **HP Quality Center** and logged all the defects into the defects module.
* Performed complex defect reports in various environments like **UAT, SIT, and QA** etc to ensure the proper delivery of the application into the production environment.

**Red Cross – Hyderabad, Telangana Dec 2006 - Oct 2009**

**QA- Functional, Regression Testing, Maintenance Support.**

**Responsibilities:**

* Involved in use case reviews and analyze the specifications.
* Understand the requirements and the application flow through walkthrough sessions conducted by the customer side **QA/BA.**
* Wrote and Reviewed test cases and analyzed the requirements. Execution of manual Test cases
* Documentation of automation scenario for the test cases
* Provide estimation for the scripting of test cases
* Develop complete automation framework consisting of **reusable actions,** **Object repositories,** test data sheets, **recovery scenarios** and **automation script** using VB scripting in **QTP 9.0** for the test cases. Execute all the scripts in **QTP 9.0**
* Upload the complete automation framework including the scripts into the **Quality Center 10.00**
* Attend daily/weekly customer calls, walkthrough sessions with the customer and coordinated with the customer in case of any issues
* Executed all the scripts using **Quality Center 10.00**
* Defect logging and tracking using **Quality Center 10.00**
* Provide release notes and a demo session to the customer at the end of each script completion. Provide Project Status Reports on Daily as well as weekly basis
* Prepared Understanding documents regarding the knowledge gained by analysis of the requirements and specifications.
* Maintained **Issue Log.**
* Performed complex defect reports in various environments like **UAT, SIT, and QA etc.** to ensure the proper